Service Schematics

Introduction

NOKIA
6110

Important:

This document is intended for use by authorized service centers only.

RM-122

"Service Schematics" was created with focus on customer care.
The purpose of this document is to provide further technical repair information for NOKIA mobile phones on Level 3/4 service activities.
It contains additional information such as e.g. "Component finder".
Saving process time and improving the repair quality is the aim of this document.
It is to be used additionaly to the service manual and other training or service information such as Service Bulletins.

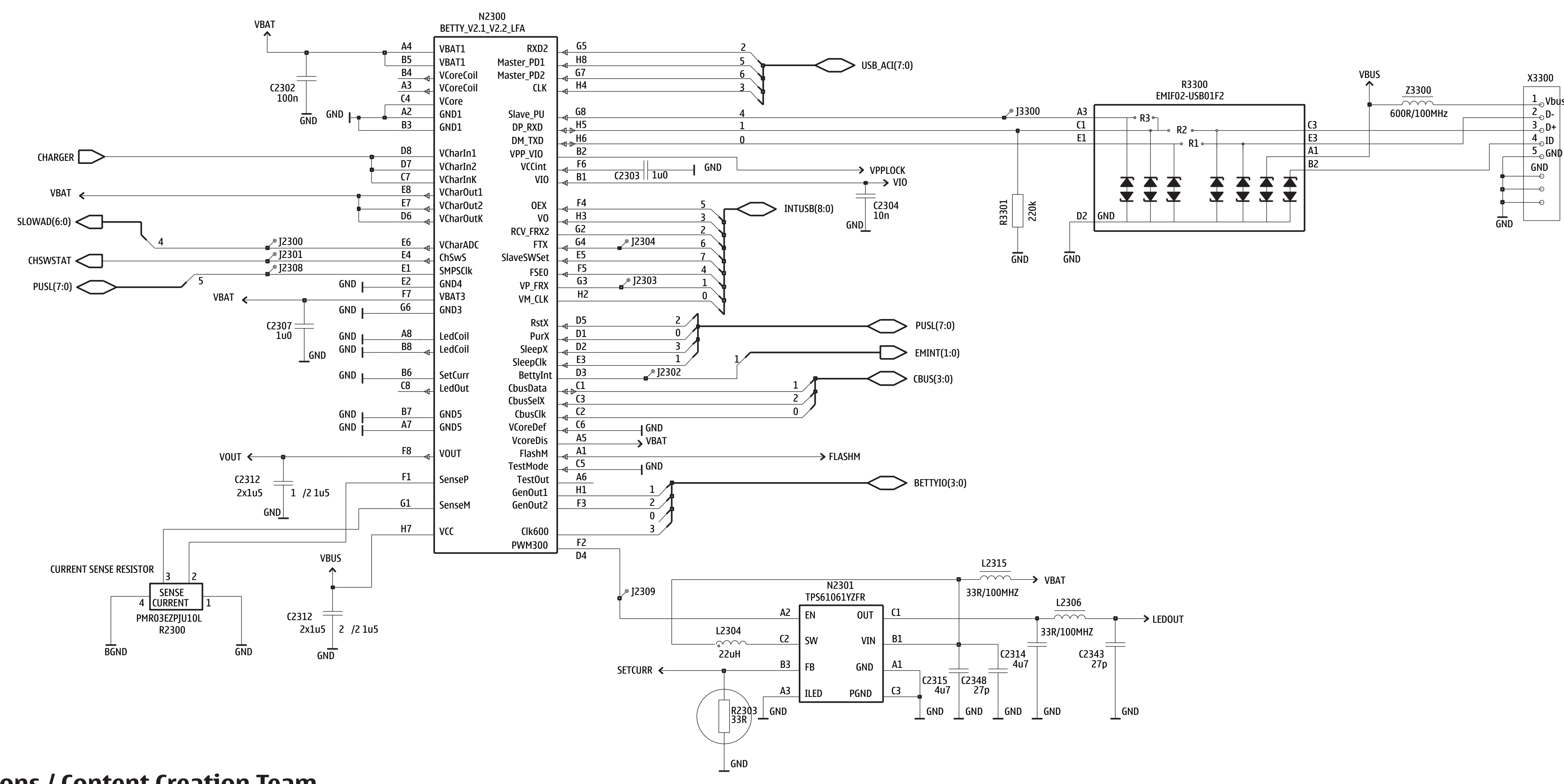


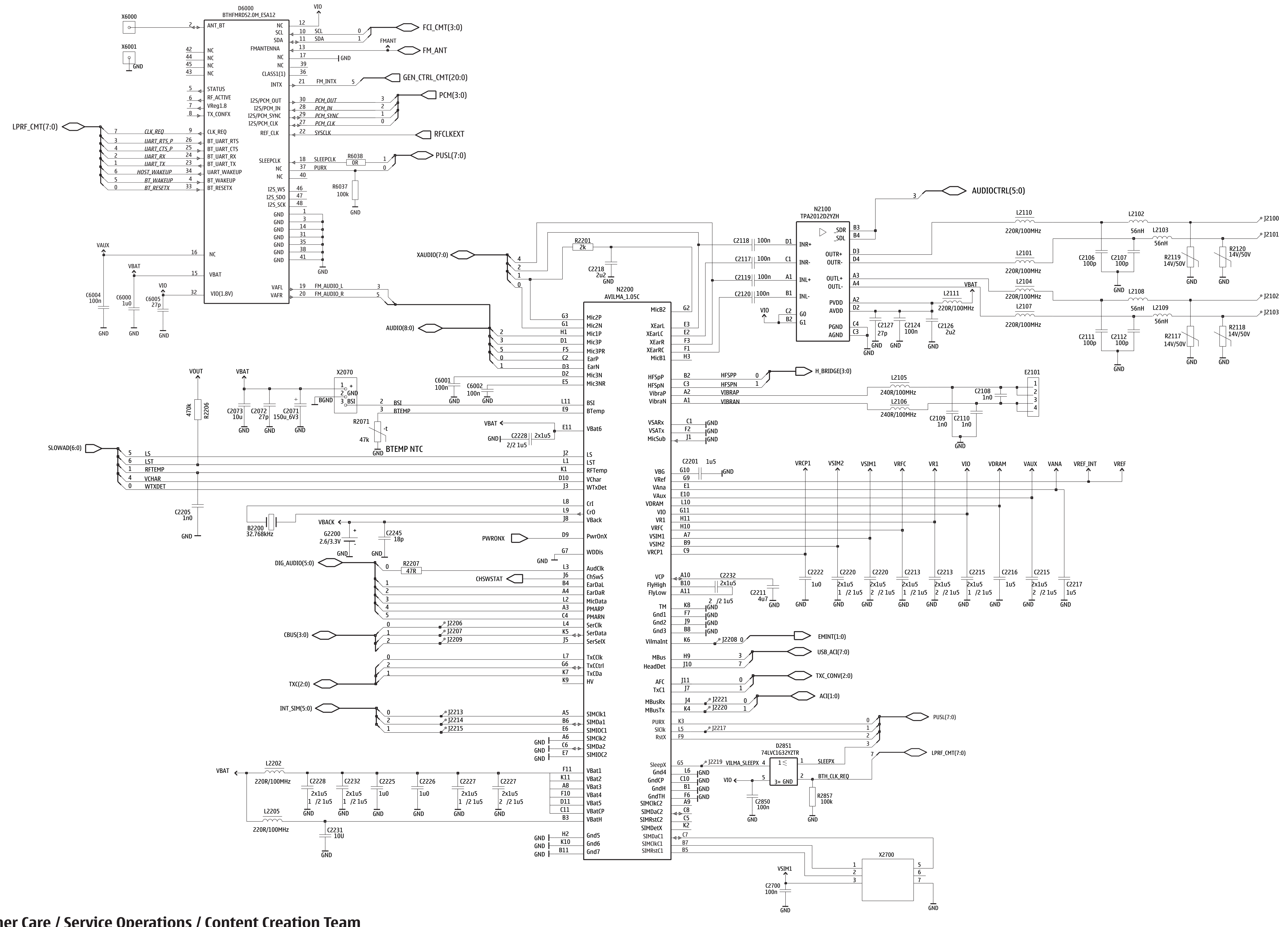
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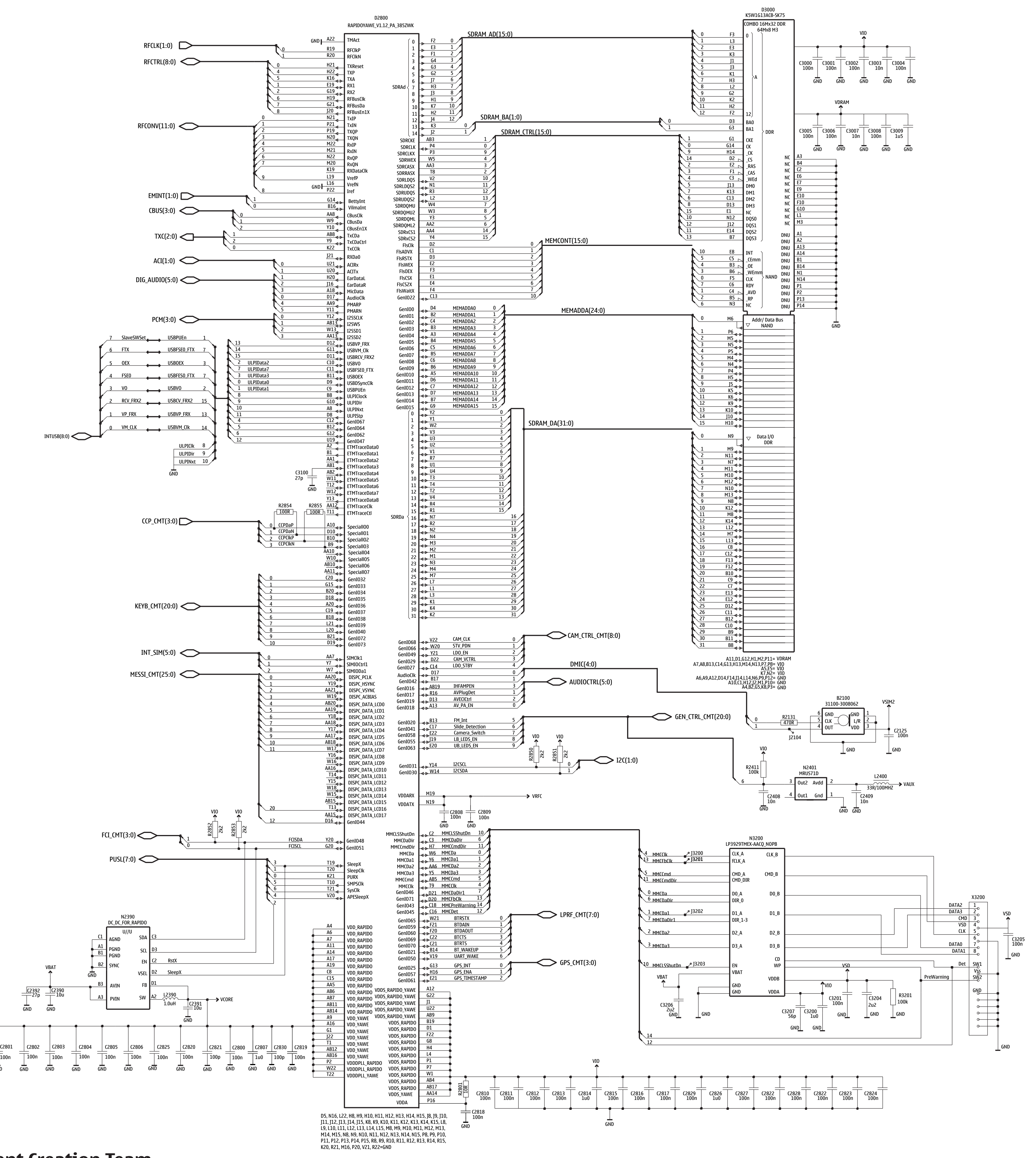
While every endeavour has been made to ensure the accuracy of this document, some errors may exist. If the reader finds any errors, NOKIA should be notified in writing.

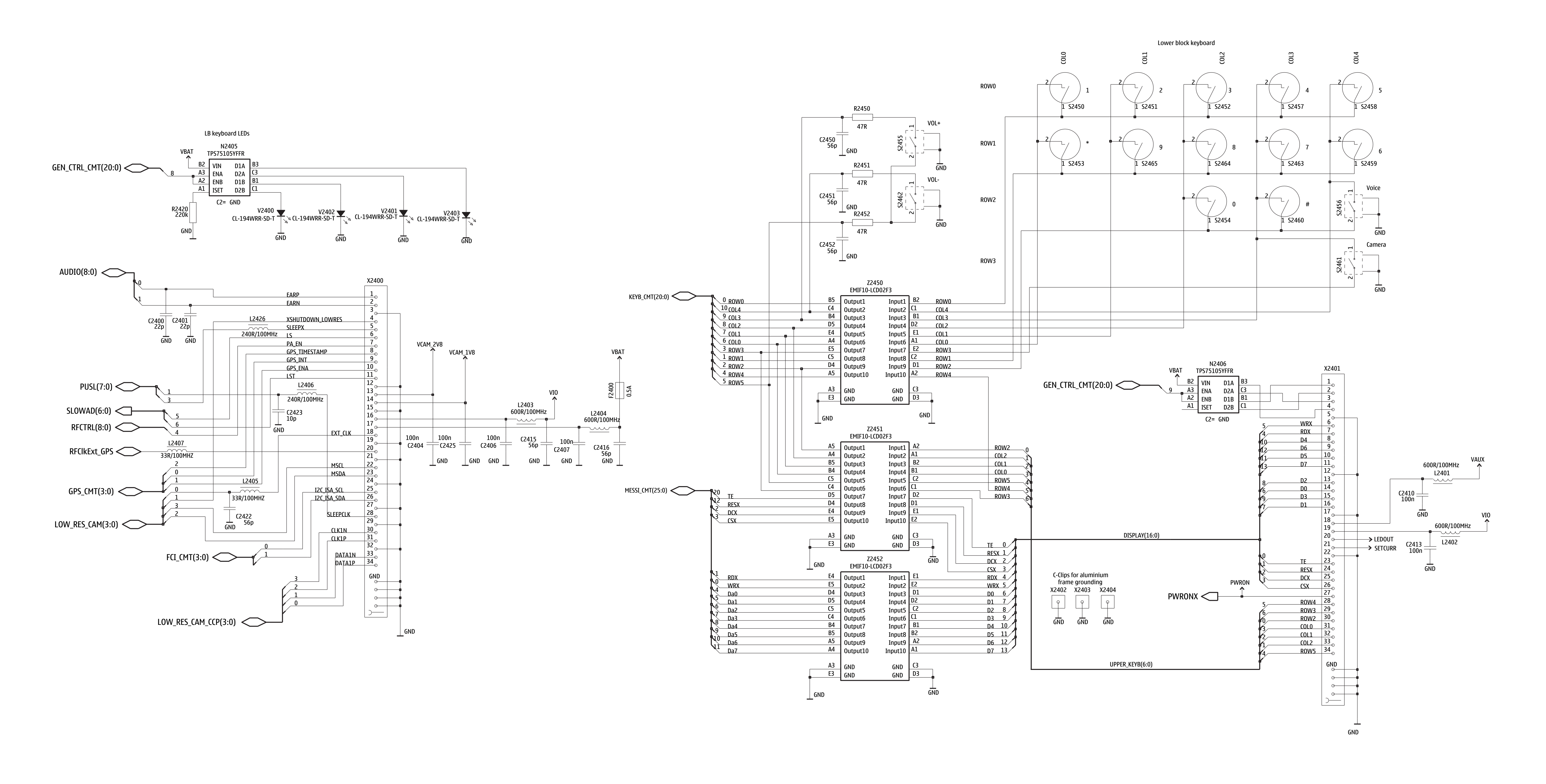
Please send E-Mail to: **training.sace@nokia.com**

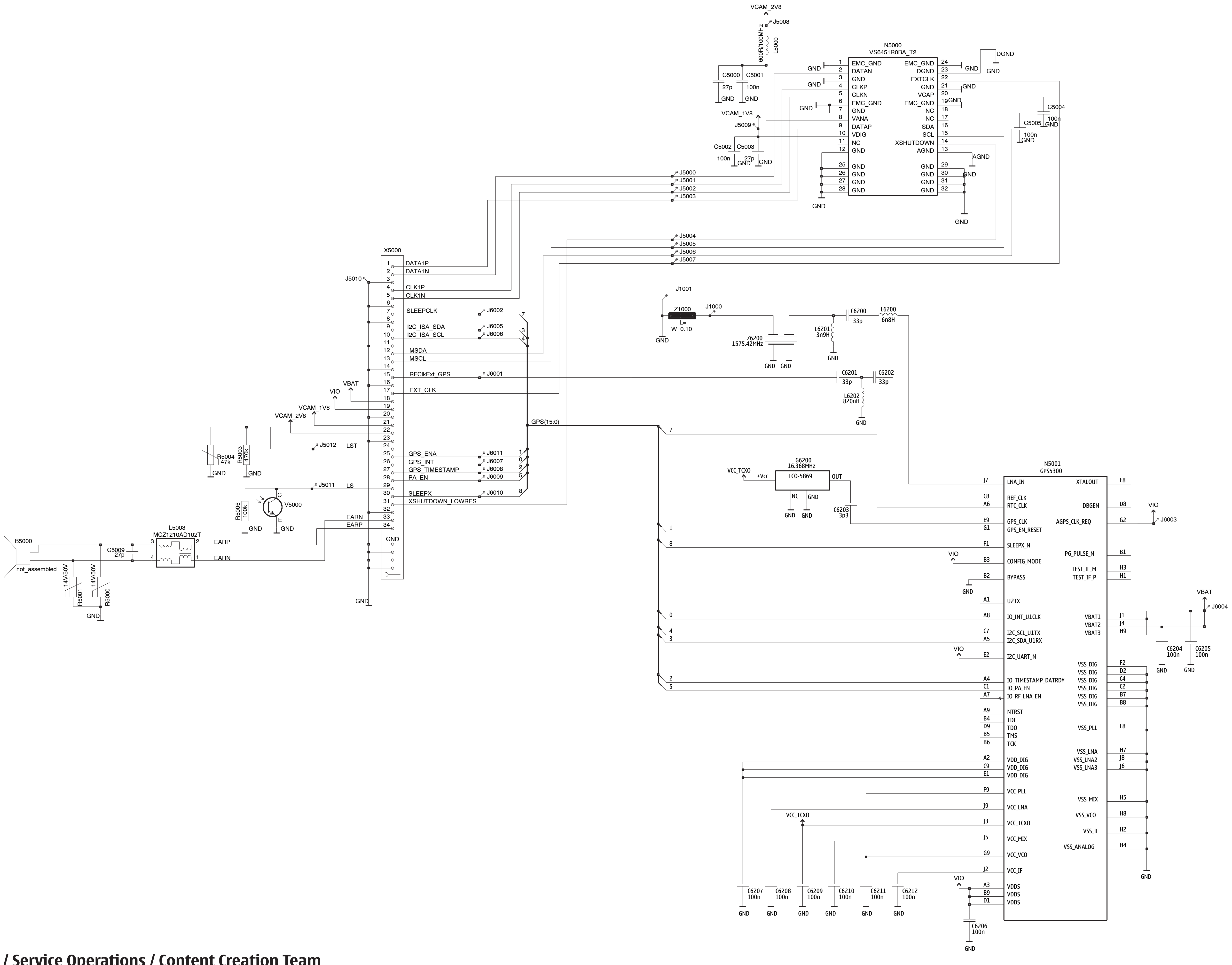
AUDIOCTRL(5:0)
AVPaEn
AVPlugDet
AVECICtrl
USB_ACI(7:0)
HEADINT
XAUDIO(7:0)
MIC2P
MIC2N
XEARL
XEARR
N2001
TS5A6542YZTR
NC
NO
IN
COM
VIO
5= VOUT
2,8= GND
VOUT
R2006
10k
C2014
10n
N2000
TPA4411YZHR
INL
INR
_SDL
_SDR
SGND
PGND
SVDD
PVDD
C1P
C1N
OUTL
OUTR
PVSS
SVSS
NC
J6011
J6012
C2004
0u47
C2016
0u47
C2005
2u2
C2006
2u2
C2007
2u2
VIO
R2001
100k
R2009
10k
C2013
10n
R2003
14V/50V
C2002
27p
C2017
270p
NA
R2002
14V/50V
Z2000
IP5311CX5_LF
L2001
600R/100MHz
W=0.20
L=1
Z2001
L2002
DLM11GN601SZ2D
HS_MIC
HS_GND
HS_EAR_L
HS_EAR_R
PLUG_DET
C2008
18p
C2009
18p
FM_ANT
L2003
72nH
J6010
J6010-J6013 = FM Radio production test points
J6013
CHARGER
C2000
27p
C2001
470n
R2000
ESDA18-1F2
L2000
220R/100MHz
2.0A
F2000
X2000
MATE
CHARGER PLUG and
2.5mm AV CONNECTOR
5469665
in LB flex
FLASHLIGHT(1:0)
GEN_CTRL_CMT(20:0)
VOUT
FB
C2018
56p
R2004
NA
14V/50V
GND

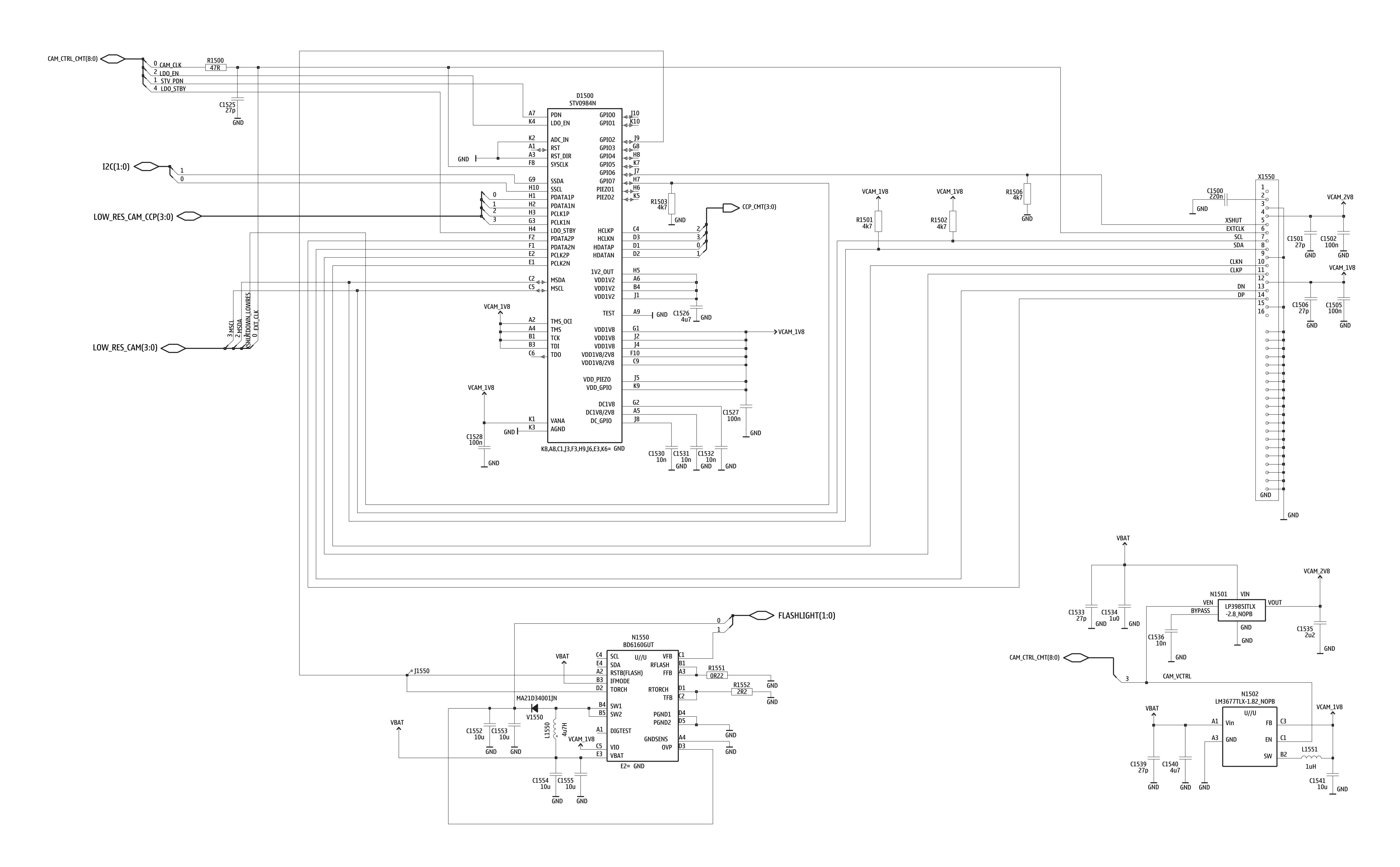


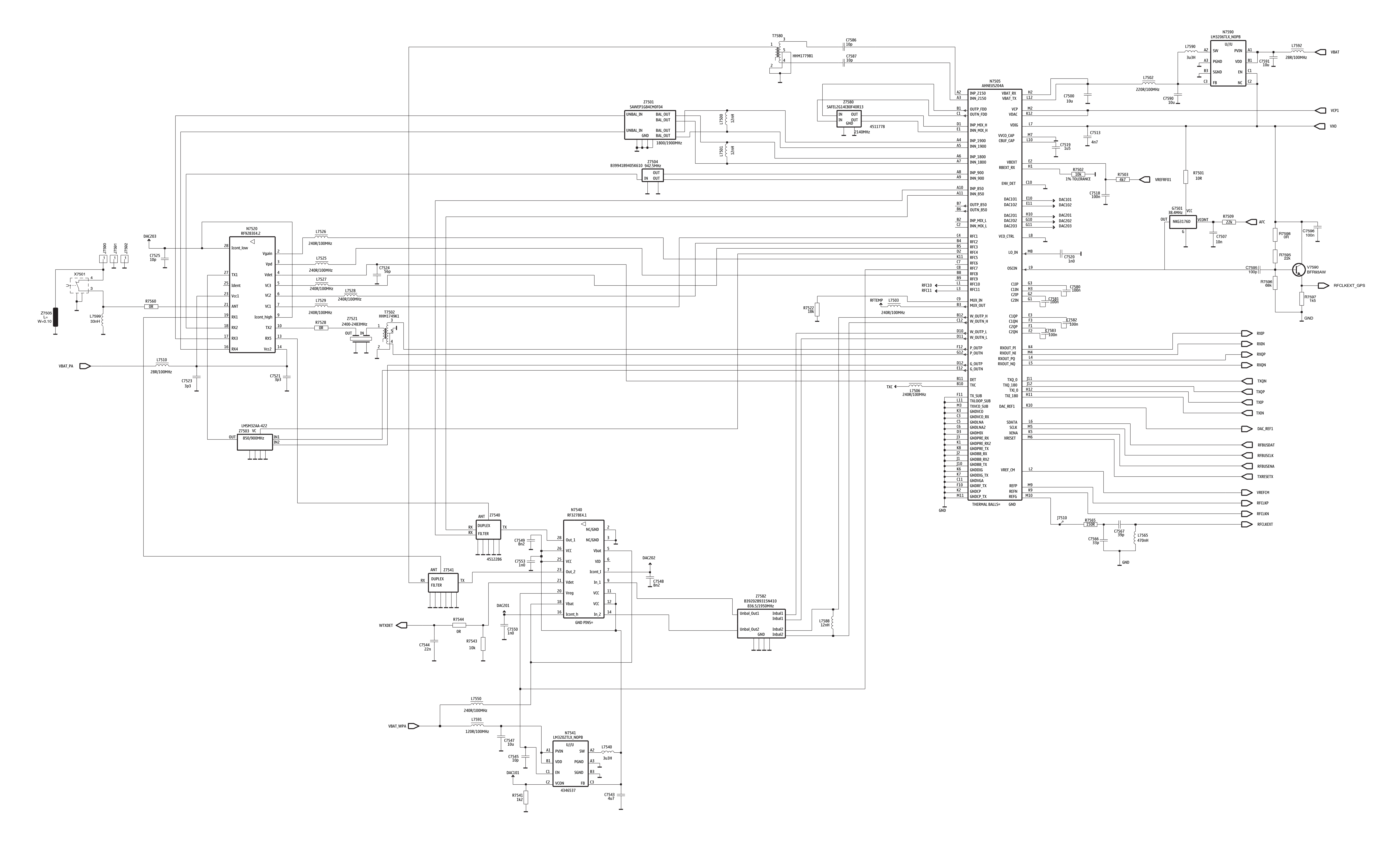

D6000
BTHFMRDS2.0M_ESA12
X6000
X6001
ANT_BT
FCI_CMT(3:0)
FM_ANT
GEN_CTRL_CMT(20:0)
PCM(3:0)
RFCLKEXT
PUSL(7:0)
LPRF_CMT(7:0)
R6038
0R
R6037
100k
VAUX
VBAT
VIO
C6004
100n
C6000
1u0
C6005
27p
AUDIOCTRL(5:0)
N2100
TPA2012D2YZH
L2110
L2102
L2103
L2101
L2104
L2108
L2107
L2109
L2111
J2100
J2101
J2102
J2103
220R/100MHz
56nH
R2119
R2120
R2117
R2118
14V/50V
R2201
2k
C2218
2u2
C2118
C2117
C2119
C2120
100n
XAUDIO(7:0)
AUDIO(8:0)
N2200
AVILMA_1.05C
H_BRIDGE(3:0)
L2105
L2106
240R/100MHz
E2101
C2108
C2109
C2110
1n0
VOUT
R2206
470k
X2070
C2073
C2072
C2071
BSI
BTEMP
R2071
47k
BTEMP NTC
C6001
C6002
C2228
SLOWAD(6:0)
LS
LST
RFTEMP
VCHAR
WTXDET
C2205
1n0
B2200
32.768kHz
VBACK
G2200
2.6/3.3V
C2245
18p
PWRONX
DIG_AUDIO(5:0)
R2207
47R
CHSWSTAT
CBUS(3:0)
J2206
J2207
J2209
TXC(2:0)
INT_SIM(5:0)
J2213
J2214
J2215
L2202
L2205
220R/100MHz
C2228
C2232
C2225
C2226
C2227
C2231
10U
VRCP1
VSIM2
VSIM1
VRFC
VR1
VIO
VDRAM
VAUX
VANA
VREF_INT
VREF
C2201
1u5
C2222
C2220
C2213
C2215
C2216
C2217
C2232
C2211
4u7
J2208
EMINT(1:0)
USB_ACI(7:0)
TXC_CONV(2:0)
J2221
J2220
ACI(1:0)
J2217
PUSL(7:0)
D2851
74LVC1G32YZTR
J2219
VILMA_SLEEPX
SLEEPX
BTH_CLK_REQ
LPRF_CMT(7:0)
C2850
100n
R2857
100k
X2700
VSIM1
C2700
100n
GND



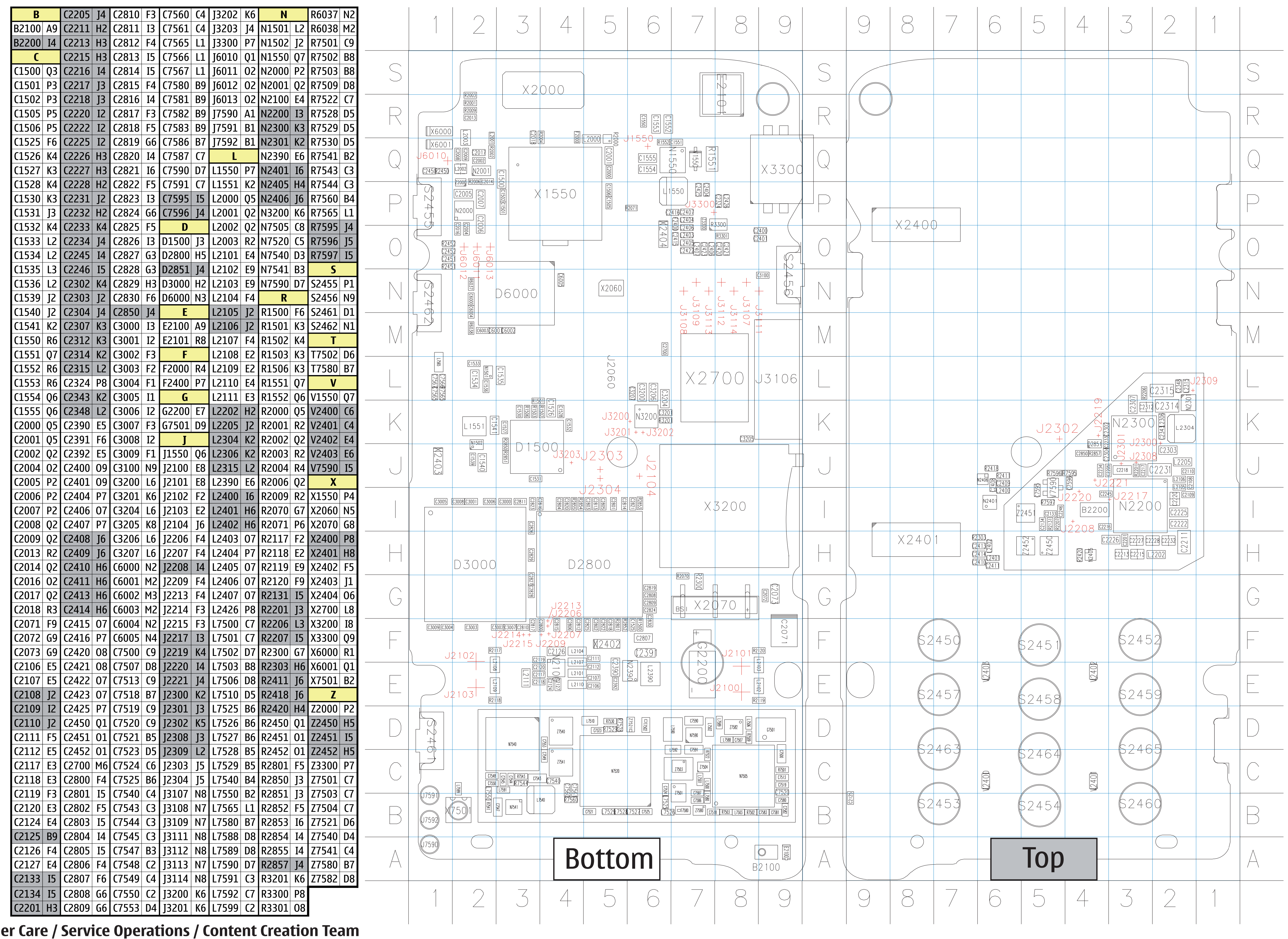

LB keyboard LEDs
N2405
TPS75105YFFR
GEN_CTRL_CMT(20:0)
VBAT
VIN
ENA
ENB
ISET
D1A
D2A
D1B
D2B
C2= GND
R2420
220k
GND
V2400
V2401
V2402
V2403
CL-194WRR-SD-T
AUDIO(8:0)
X2400
EARP
EARN
C2400
22p
C2401
22p
L2426
240R/100MHz
XSHUTDOWN_LOWRES
SLEEPX
LS
PA_EN
GPS_TIMESTAMP
GPS_INT
GPS_ENA
LST
L2406
240R/100MHz
C2423
10p
PUSL(7:0)
SLOWAD(6:0)
RFCTRL(8:0)
RFClkExt_GPS
L2407
33R/100MHZ
EXT_CLK
GPS_CMT(3:0)
L2405
33R/100MHZ
C2422
56p
MSCL
MSDA
I2C_ISA_SCL
I2C_ISA_SDA
SLEEPCLK
LOW_RES_CAM(3:0)
CLK1N
CLK1P
FCI_CMT(3:0)
DATA1N
DATA1P
LOW_RES_CAM_CCP(3:0)
VCAM_2V8
VCAM_1V8
C2404
C2425
C2406
100n
L2403
600R/100MHz
VIO
C2415
56p
C2407
L2404
600R/100MHz
C2416
56p
F2400
0.5A
Lower block keyboard
COL0
COL1
COL2
COL3
COL4
ROW0
ROW1
ROW2
ROW3
S2450
S2451
S2452
S2457
S2458
S2453
S2465
S2464
S2463
S2459
S2454
S2460
S2456
S2461
Voice
Camera
R2450
R2451
R2452
47R
C2450
C2451
C2452
56p
S2455
S2462
VOL+
VOL-
KEYB_CMT(20:0)
Z2450
Z2451
Z2452
EMIF10-LCD02F3
MESSI_CMT(25:0)
TE
RESX
DCX
CSX
RDX
WRX
N2406
TPS75105YFFR
X2401
DISPLAY(16:0)
UPPER_KEYB(6:0)
C-Clips for aluminium frame grounding
X2402
X2403
X2404
PWRONX
PWRON
600R/100MHz
L2401
VAUX
C2410
100n
L2402
C2413
100n
LEDOUT
SETCURR


N5000
VS6451R0BA_T2
X5000
N5001
GPS5300
G6200
16.368MHz
TCO-5869
Z6200
1575.42MHz
B5000
not_assembled
L5003
MCZ1210AD102T
V5000
GPS(15:0)
VCAM_2V8
VCAM_1V8
VBAT
VIO
VCC_TCXO
DATA1P
DATA1N
CLK1P
CLK1N
SLEEPCLK
I2C_ISA_SDA
I2C_ISA_SCL
MSDA
MSCL
RFClkExt_GPS
EXT_CLK
LST
GPS_ENA
GPS_INT
GPS_TIMESTAMP
PA_EN
LS
SLEEPX
XSHUTDOWN_LOWRES
EARN
EARP

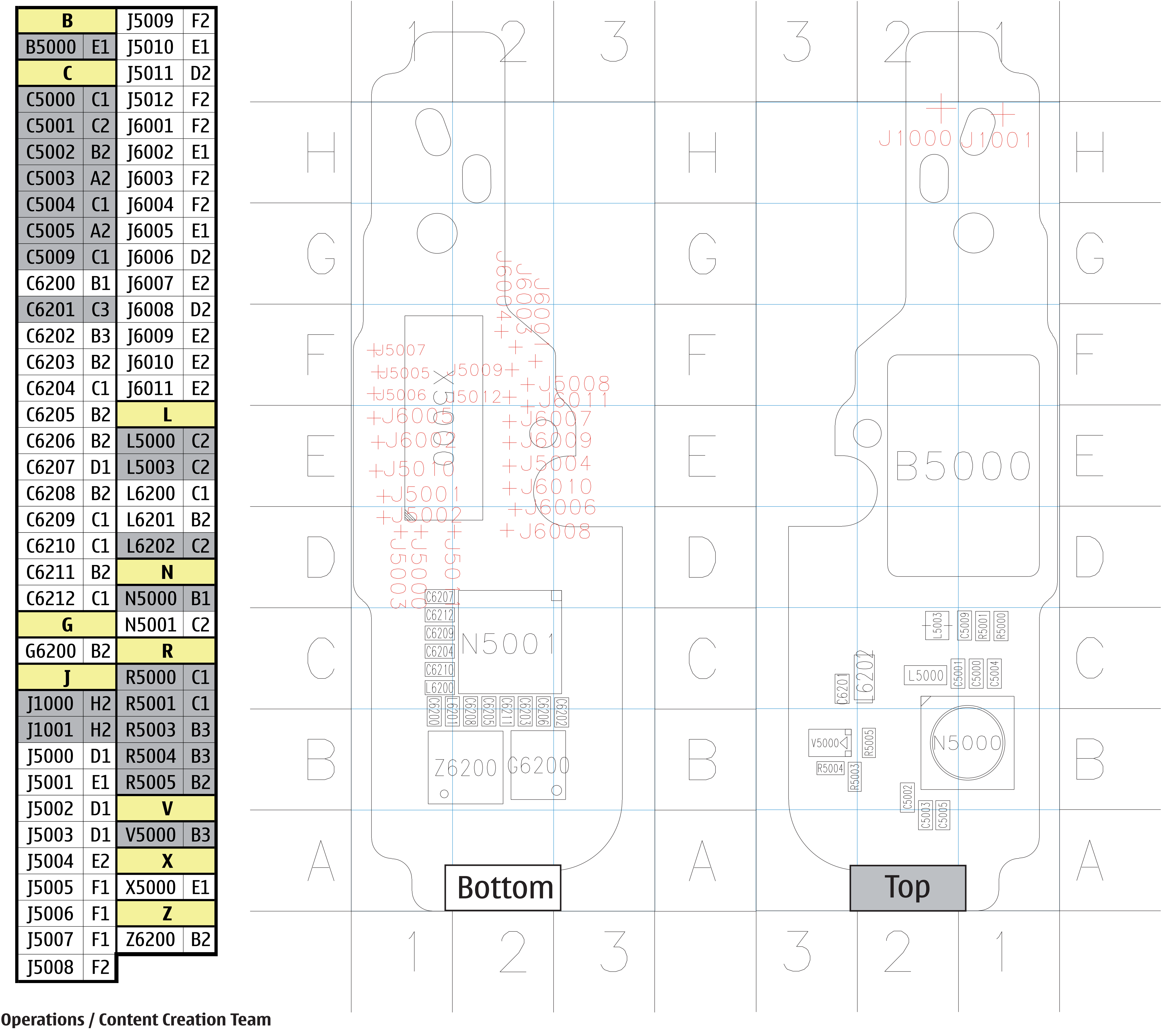




T7580
HHM1779B1
C7586
10p
C7587
10p
N7590
LM3206TLX_NOPB
L7590
3u3H
L7592
28R/100MHz
VBAT
N7505
AHNEUS204A
Z7501
SAWEP1G84CM0F04
1800/1900MHz
Z7580
SAFEL2G14CB0F40R13
2140MHz
4511778
L7502
220R/100MHz
VCP1
VIO
Z7504
B39941B9405K610 942.5MHz
VREFRF01
R7501
10R
G7501
38.4MHz
NKG3176D
AFC
V7590
BFR93AW
RFCLKEXT_GPS
N7520
RF9283E4.2
DAC203
X7501
Z7505
L7599
33nH
R7560
0R
VBAT_PA
L7510
28R/100MHz
L7526
240R/100MHz
L7525
240R/100MHz
L7527
240R/100MHz
L7528
240R/100MHz
L7529
240R/100MHz
R7528
0R
Z7521
2400-2483MHz
T7502
HHM1749K1
RFTEMP
L7503
240R/100MHz
R7522
18k
TXC
L7506
240R/100MHz
RXIP
RXIN
RXQP
RXQN
TXQN
TXQP
TXIP
TXIN
DAC_REF1
RFBUSDAT
RFBUSCLK
RFBUSENA
TXRESETX
VREFCM
RFCLKP
RFCLKN
RFCLKEXT
LMSM32AA-422
Z7503
850/900MHz
N7540
RF3278E4.1
Z7540
DUPLEX
FILTER
4512286
Z7541
DUPLEX
FILTER
DAC202
Z7582
B39202B9315N410
836.5/1950MHz
L7588
12nH
WTXDET
R7544
0R
R7543
10k
DAC201
L7550
240R/100MHz
VBAT_WPA
L7591
120R/100MHz
N7541
LM3202TLX_NOPB
4346537
L7540
3u3H
DAC101
R7541
1k2
C7543
4u7
GND



B		C2205	J4	C2810	F3	C7560	C4	J3202	K6	**N**		R6037	N2
B2100	A9	C2211	H2	C2811	I3	C7561	C4	J3203	J4	N1501	L2	R6038	M2
B2200	I4	C2213	H3	C2812	F4	C7565	L1	J3300	P7	N1502	J2	R7501	C9
C		C2215	H3	C2813	I5	C7566	L1	J6010	Q1	N1550	Q7	R7502	B8
C1500	Q3	C2216	I4	C2814	I5	C7567	L1	J6011	O2	N2000	P2	R7503	B8
C1501	P3	C2217	J3	C2815	F4	C7580	B9	J6012	O2	N2001	Q2	R7509	D8
C1502	P3	C2218	J3	C2816	I4	C7581	B9	J6013	O2	N2100	E4	R7522	C7
C1505	P5	C2220	I2	C2817	F3	C7582	B9	J7590	A1	N2200	I3	R7528	D5
C1506	P5	C2222	I2	C2818	F5	C7583	B9	J7591	B1	N2300	K3	R7529	D5
C1525	F6	C2225	I2	C2819	G6	C7586	B7	J7592	B1	N2301	K2	R7530	D5
C1526	K4	C2226	H3	C2820	I4	C7587	C7	**L**		N2390	E6	R7541	B2
C1527	K3	C2227	H3	C2821	I6	C7590	D7	L1550	P7	N2401	I6	R7543	C3
C1528	K4	C2228	H2	C2822	F5	C7591	C7	L1551	K2	N2405	H4	R7544	C3
C1530	K3	C2231	J2	C2823	I3	C7595	I5	L2000	Q5	N2406	J6	R7560	B4
C1531	J3	C2232	H2	C2824	G6	C7596	J4	L2001	Q2	N3200	K6	R7565	L1
C1532	K4	C2233	K4	C2825	F5	**D**		L2002	Q2	N7505	C8	R7595	J4
C1533	L2	C2234	J4	C2826	I3	D1500	J3	L2003	R2	N7520	C5	R7596	J5
C1534	L2	C2245	I4	C2827	G3	D2800	H5	L2101	E4	N7540	D3	R7597	I5
C1535	L3	C2246	I5	C2828	G3	D2851	J4	L2102	E9	N7541	B3	**S**	
C1536	L2	C2302	K4	C2829	H3	D3000	H2	L2103	E9	N7590	D7	S2455	P1
C1539	J2	C2303	J2	C2830	F6	D6000	N3	L2104	F4	**R**		S2456	N9
C1540	J2	C2304	J4	C2850	J4	**E**		L2105	J2	R1500	F6	S2461	D1
C1541	K2	C2307	K3	C3000	I3	E2100	A9	L2106	J2	R1501	K3	S2462	N1
C1550	R6	C2312	K3	C3001	I2	E2101	R8	L2107	F4	R1502	K4	**T**	
C1551	Q7	C2314	K2	C3002	F3	**F**		L2108	E2	R1503	K3	T7502	D6
C1552	R6	C2315	L2	C3003	F2	F2000	R4	L2109	E2	R1506	K3	T7580	B7
C1553	R6	C2324	P8	C3004	F1	F2400	P7	L2110	E4	R1551	Q7	**V**	
C1554	Q6	C2343	K2	C3005	I1	**G**		L2111	E3	R1552	Q6	V1550	Q7
C1555	Q6	C2348	L2	C3006	I2	G2200	E7	L2202	H2	R2000	Q5	V2400	C6
C2000	Q5	C2390	E5	C3007	F3	G7501	D9	L2205	J2	R2001	R2	V2401	C4
C2001	Q5	C2391	F6	C3008	I2	**J**		L2304	K2	R2002	Q2	V2402	E4
C2002	Q2	C2392	E5	C3009	F1	J1550	Q6	L2306	K2	R2003	R2	V2403	E6
C2004	O2	C2400	O9	C3100	N9	J2100	E8	L2315	L2	R2004	R4	V7590	I5
C2005	P2	C2401	O9	C3200	L6	J2101	E8	L2390	E6	R2006	Q2	**X**	
C2006	P2	C2404	P7	C3201	K6	J2102	F2	L2400	I6	R2009	R2	X1550	P4
C2007	P2	C2406	O7	C3204	L6	J2103	E2	L2401	H6	R2070	G7	X2060	N5
C2008	Q2	C2407	P7	C3205	K8	J2104	J6	L2402	H6	R2071	P6	X2070	G8
C2009	Q2	C2408	J6	C3206	L6	J2206	F4	L2403	O7	R2117	F2	X2400	P8
C2013	R2	C2409	J6	C3207	L6	J2207	F4	L2404	P7	R2118	E2	X2401	H8
C2014	Q2	C2410	H6	C6000	N2	J2208	I4	L2405	O7	R2119	E9	X2402	F5
C2016	O2	C2411	H6	C6001	M2	J2209	F4	L2406	O7	R2120	F9	X2403	J1
C2017	Q2	C2413	H6	C6002	M3	J2213	F4	L2407	O7	R2131	I5	X2404	O6
C2018	R3	C2414	H6	C6003	M2	J2214	F3	L2426	P8	R2201	J3	X2700	L8
C2071	F9	C2415	O7	C6004	N2	J2215	F3	L7500	C7	R2206	L3	X3200	I8
C2072	G9	C2416	P7	C6005	N4	J2217	I3	L7501	C7	R2207	I5	X3300	Q9
C2073	G9	C2420	O8	C7500	C9	J2219	K4	L7502	D7	R2300	G7	X6000	R1
C2106	E5	C2421	O8	C7507	D8	J2220	I4	L7503	B8	R2303	H6	X6001	Q1
C2107	E5	C2422	O7	C7513	C9	J2221	J4	L7506	D8	R2411	J6	X7501	B2
C2108	J2	C2423	O7	C7518	B7	J2300	K2	L7510	D5	R2418	J6	**Z**	
C2109	I2	C2425	P7	C7519	C9	J2301	J3	L7525	B6	R2420	H4	Z2000	P2
C2110	J2	C2450	Q1	C7520	C9	J2302	K5	L7526	B6	R2450	Q1	Z2450	H5
C2111	F5	C2451	O1	C7521	B5	J2308	J3	L7527	B6	R2451	O1	Z2451	I5
C2112	E5	C2452	O1	C7523	D5	J2309	L2	L7528	B5	R2452	O1	Z2452	H5
C2117	E3	C2700	M6	C7524	C6	J2303	J5	L7529	B5	R2801	F5	Z3300	P7
C2118	E3	C2800	F4	C7525	B6	J2304	J5	L7540	B4	R2850	J3	Z7501	C7
C2119	F3	C2801	I5	C7540	C4	J3107	N8	L7550	B2	R2851	J3	Z7503	C7
C2120	E3	C2802	F5	C7543	C3	J3108	N7	L7565	L1	R2852	F5	Z7504	C7
C2124	E4	C2803	I5	C7544	C3	J3109	N7	L7580	B7	R2853	I6	Z7521	D6
C2125	B9	C2804	I4	C7545	C3	J3111	N8	L7588	D8	R2854	I4	Z7540	D4
C2126	F4	C2805	I5	C7547	B3	J3112	N8	L7589	D8	R2855	I4	Z7541	C4
C2127	E4	C2806	F4	C7548	C2	J3113	N7	L7590	D7	R2857	J4	Z7580	B7
C2133	I5	C2807	F6	C7549	C4	J3114	N8	L7591	C3	R3201	K6	Z7582	D8
C2134	I5	C2808	G6	C7550	C2	J3200	K6	L7592	C7	R3300	P8		
C2201	H3	C2809	G6	C7553	D4	J3201	K6	L7599	C2	R3301	O8		



B	
B5000	E1
C	
C5000	C1
C5001	C2
C5002	B2
C5003	A2
C5004	C1
C5005	A2
C5009	C1
C6200	B1
C6201	C3
C6202	B3
C6203	B2
C6204	C1
C6205	B2
C6206	B2
C6207	D1
C6208	B2
C6209	C1
C6210	C1
C6211	B2
C6212	C1
G	
G6200	B2
J	
J1000	H2
J1001	H2
J5000	D1
J5001	E1
J5002	D1
J5003	D1
J5004	E2
J5005	F1
J5006	F1
J5007	F1
J5008	F2
J5009	F2
J5010	E1
J5011	D2
J5012	F2
J6001	F2
J6002	E1
J6003	F2
J6004	F2
J6005	E1
J6006	D2
J6007	E2
J6008	D2
J6009	E2
J6010	E2
J6011	E2
L	
L5000	C2
L5003	C2
L6200	C1
L6201	B2
L6202	C2
N	
N5000	B1
N5001	C2
R	
R5000	C1
R5001	C1
R5003	B3
R5004	B3
R5005	B2
V	
V5000	B3
X	
X5000	E1
Z	
Z6200	B2